Kingston
TECHNOLOGY

KSM48R40BD4-64HA

64GB 2Rx4 8G x 80-Bit
PC5-4800 CL40 Registered EC8 288-Pin DIMM

DESCRIPTION

Kingston's KSM48R40BD4-64HA is a 8G x 80-bit (64GB) DDR5-4800 CL40 SDRAM (Synchronous DRAM), 2Rx4, ECC, memory module, based on forty 4G x 4-bit FBGA components. The SPD is programmed to JEDEC standard latency DDR5-4800 timing of 40-39-39 at 1.1V. Each 288-pin DIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

FEATURES

- Power Supply: VDD = 1.1V Typical

- VDDQ = 1.1V Typical

- VPP = 1.8V Typical

- VDDSPD = 1.8V to 2.0V

- On-Die ECC

- x80 ECC (x40, 2 independent I/O sub channels)

- 32 internal banks

- Hard/Soft Post Package Repair

- Sideband access with I3C/I2C

- PCB: Height 1.23" (31.25mm)

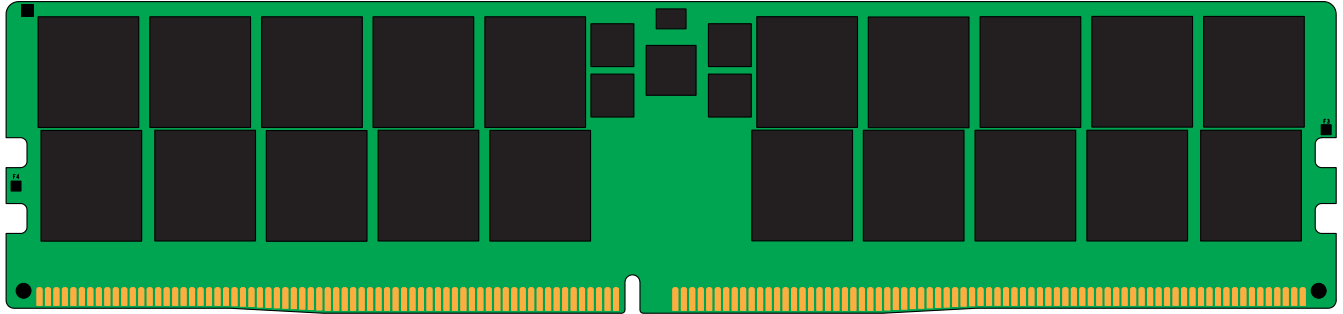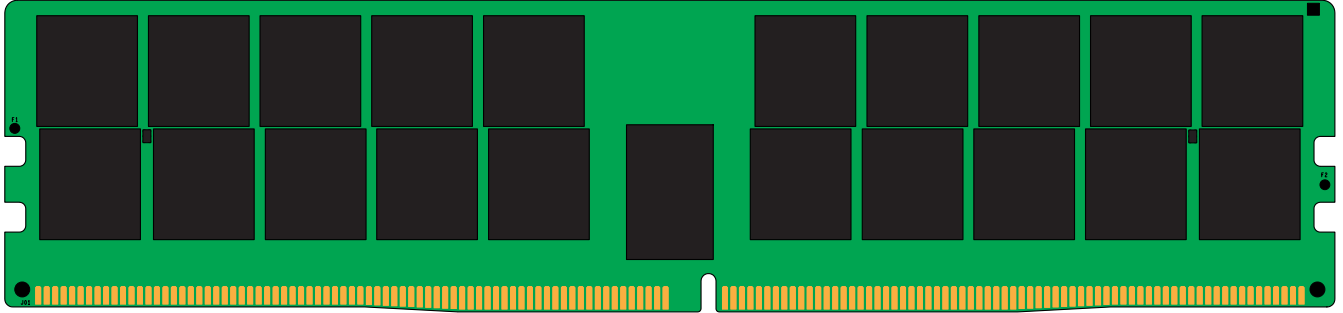- RoHS Compliant and Halogen-Free

SPECIFICATIONS

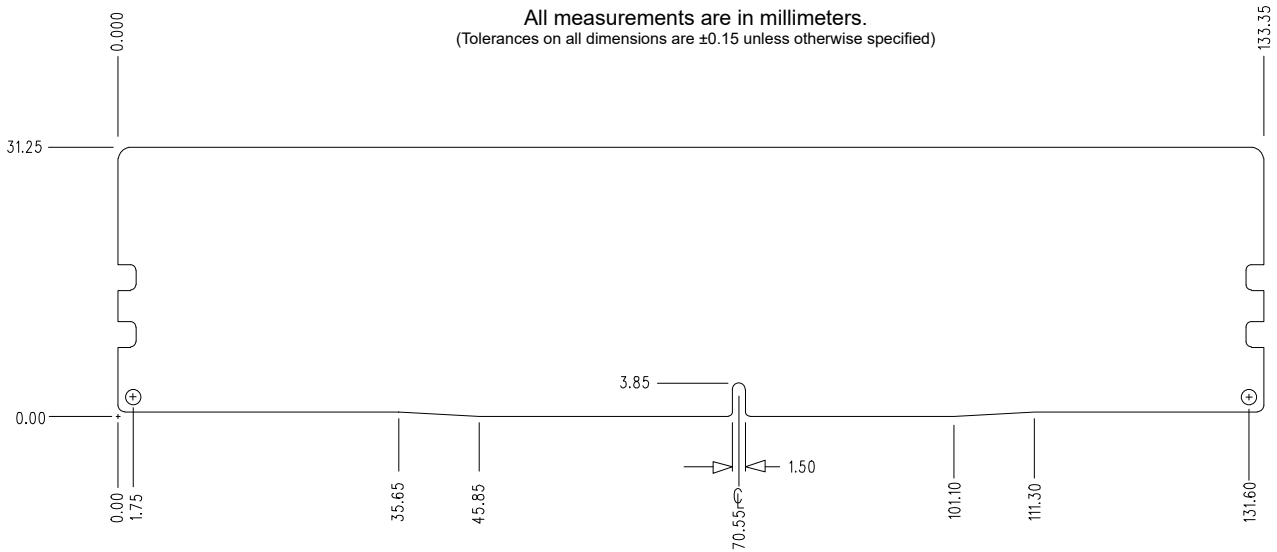|	
CL(IDD)	40 cycles
Row Cycle Time (tRCmin)	48ns(min.)
Refresh to Active/Refresh Command Time (tRFCmin)	295ns(min.)
Row Active Time (tRASmin)	32ns(min.)
Row Precharge Time (tRPmin)	16ns(min.)
UL Rating	94 V - 0
Operating Temperature	0° C to +95° C
Storage Temperature	-55° C to +100° C

Module Assembly

DRAM: Hynix (A-DIE)

MODULE DIMENSIONS

All measurements are in millimeters.
(Tolerances on all dimensions are ±0.15 unless otherwise specified)

0.000

133.35

31.25

0.00

3.85

0.00
1.75

35.65

45.85

70.55

1.50

101.10

111.30

131.60

Revision No.	History	Release Date	Remark	Editor	Approved
A	Initial Release	03/21/24		David Y.	Henry N.
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